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NPIC/IEG/TFD

15 JANUARY 1985

RAMONA-M ELINT SYSTEM DEPLOYMENT
USSR (SWN)

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1. **SIGNIFICANCE:** THE SOVIETS HAVE DEPLOYED TWO MORE CZECHOSLOVAKIAN-BUILT RAMONA-M ELINT SYSTEMS ALONG THEIR NORTHWESTERN BORDER SINCE MID-1983. TWELVE RAMONA-M SYSTEMS HAVE BEEN IDENTIFIED IN THE WARSAW PACT COUNTRIES SINCE 1981. (SWN)
2. **REMARKS:** THE RAMONA-M, WHICH IS A PASSIVE RADAR INTERCEPT SYSTEM WAS IDENTIFIED NEAR THE CITY OF TALLINN ON THE BALTIC COAST, AND NORTH OF THE CITY OF ALAKURTTI ON THE FINNO-SOVIET BORDER ON IMAGERY OF AUGUST 1984. THE RECENT DEPLOYMENTS ARE AT LOCATIONS THAT EXPAND COVERAGE OF THE BORDER AREA Laterally FROM TWO OTHER RAMONA SYSTEMS. TEN OF THE 12 RAMONA SYSTEMS HAVE BEEN IDENTIFIED IN THE WESTERN USSR AND EASTERN EUROPE: SIX IN THE WESTERN USSR, THREE IN THE GERMAN DEMOCRATIC REPUBLIC, AND ONE IN CZECHOSLOVAKIA, FORMING A PATTERN SUGGESTING THAT A CONTINUOUS RAMONA ELINT NETWORK MAY BE DEPLOYED ALONG THE WARSAW PACT/NATO BOUNDARY. SIX MORE DEPLOYMENTS WOULD BE NEEDED AT 150 TO 400 KM INTERVALS BETWEEN THE CURRENT LOCATIONS TO PROVIDE COVERAGE OF THE ENTIRE BOUNDARY (GRAPHIC 1). TWO RAMONA-M SYSTEMS (PROBABLY PROTOTYPE) HAD BEEN DEPLOYED FOR TESTING IN CZECHOSLOVAKIA PRIOR TO 1981 AND HAVE BEEN REMOVED. THE RAMONA-M SYSTEM HAS ALSO BEEN DEPLOYED IN SYRIA. (SWN)

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ANALYST'S COMMENTS: THE RAMONA-M IS A COMPUTER-CONTROLLED PASSIVE SIGNAL INTERCEPT SYSTEM USED TO LOCATE AND IDENTIFY PULSED RADARS BY TYPE. IT HAS A PROJECTED RANGE OF AT LEAST 300 KM AGAINST AIRBORNE EMITTERS, AND CAN REPORTEDLY LOCATE AND TRACK FROM 12 TO 20 TARGETS SIMULTANEOUSLY PER MINUTE. EACH RAMONA-M SYSTEM CONSISTS OF A SET OF THREE MAST-MOUNTED RADOMES. WITH TWO OF THE ANTENNAS DEPLOYED UP TO 32 KM FROM THE CENTER PROCESSING STATION. THE TWO FLANK STATIONS RELAY DATA TO THE CENTER STATION WHERE IT IS PROCESSED IN A SIX-VAN AUTOMATED PROCESSING CENTER. MOST OF THE RAMONA ANTENNAS IDENTIFIED AT SOVIET FACILITIES TO DATE HAVE BEEN ASSOCIATED WITH GRU SIGINT UNITS. HOWEVER, SIX OF THE 11 ANTENNAS IN THE FOUR SYSTEMS ALONG THE NORTHWESTERN USSR BORDER ARE COLLOCATED WITH LOW ALTITUDE SA-3 MISSILE (GRAPHIC 2) OR TALL KING EARLY WARNING RADAR FACILITIES (PVO ASSOCIATION). WHILE THESE MOST RECENT DEPLOYMENTS MAY HAVE BEEN COLLOCATED WITH PVO INSTALLATIONS FOR

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THE CONVENIENCE OF ALREADY EXISTING SECURITY AND SUPPORT, THE INTEGRATION OF THE ELINT SYSTEM INTO THE PVO LOW ALTITUDE AIR DEFENSE NETWORK IS POSSIBLE. (SWN/ [REDACTED])

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THE FOLLOWING TABLE LISTS THE LOCATIONS OF THE 12 RAMONA-M ELINT SYSTEM DEPLOYMENTS IN THE USSR AND EASTERN EUROPE. THE AUTOMATED CENTER PROCESSING STATIONS ARE INDICATED AS "(C)".

LOCATION/BE NUMBER	COORDINATES	UNIT ASSOCIATION
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USSR

PECHENGA

[REDACTED]

69-26-05N 030-57-53E
69-29-45N 031-22-10E
69-23-46N 030-22-34E

TALL KING RADAR
GRU SIGINT UNIT
UNKNOWN

25X1

KOVDOR/ALAKURTTI (NEW)

[REDACTED]

67-35-40N 030-31-00E
67-43-23N 030-35-33E
67-25-37N 030-24-08E

TALL KING RADAR
REMOTE SITE
REMOTE SITE

25X1

TALLINN (NEW)

[REDACTED]

59-31-00N 024-50-30E
59-31-29N 025-08-43E
59-27-52N 024-27-03E

GRU SIGINT UNIT
SA-3 SITE
SA-3 SITE

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LIEPAJA

[REDACTED]

56-25-11N 020-59-56E
56-08-46N 021-08-45E

GRU SIGINT UNIT
SA-3 SITE

25X1

ODESSA

[REDACTED]

46-36-46N 030-46-08E
46-35-13N 030-57-02E
46-29-46N 030-34-30E

GRU SIGINT UNIT
GRU SIGINT UNIT
GRU SIGINT UNIT

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SUKHUMI

[REDACTED]

42-59-40N 040-58-20E
43-05-45N 040-36-40E

GRU SIGINT UNIT
GRU SIGINT UNIT

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SHCHELKOVO

[REDACTED]

55-54-42N 037-56-34E

SIGINT SCHOOL

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ARTEM

43-22-26N 132-15-41E

GRU SIGINT UNIT

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CZECHOSLOVAKIA

SKARMANKA/ZVON

49-27-30N 012-45-01E
49-34-00N 012-37-00ECZECH SIGINT SITE
CZECH SIGINT SITE

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(THE ABOVE TABLE IS CLASSIFIED SWN)

3.

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4. COLLATERAL REFERENCE: US ARMY FOREIGN SCIENCE AND TECHNOLOGY CENTER, AST-1790S-100-82, THE CZECHOSLOVAK RAMONA FOR LOCATING HOSTILE RADARS (S), 26 FEBRUARY 1982 (SWN)

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